

IN THE SPECIFICATION

1. Please replace the paragraph beginning on page 1, line 12 with the following replacement paragraph:

A1  
Point-to-Point Protocol multiplexing (PPPMux) is known in the art. As described in IEEE International Communications Conference 2001 (ICC2001) Proceedings *PPPMux- A new Protocol for Transporting Small IP Packets*, PPPmux is a protocol utilized to multiplex multiple higher-layer packets within a single lower-layer PPP frame. PPPmux offers higher capacity by reducing the protocol overhead corresponding to lower layers (e.g., UDP/IP). Higher efficiency is achieved because multiple IP packets share a common header as shown in FIG. 1. As shown, multiple UDP/IP packets 110 are multiplexed onto a single PPP packet 112. Each UDP/IP packet originally contains its own header information 101 and payload 102. After multiplexing, the PPP packet contains a single header 103 and the payload for the UDP/IP packets 110. Several techniques are utilized to identify individual UDP/IP payloads within the PPP packet. For example, as discussed in United States Patent Application No. 09/534,371 09/534,971, a frame header 104 may be placed at the beginning of the multiplexed UDP/IP packets.

2. Please replace the paragraph beginning on page 3, line 23 with the following replacement paragraph:

A2  
As shown in FIG. 2, multiple users, or mobile units 201, are communicating with base transceiver station (BTS) 202. BTS 202 multiplexes several user UDP/IP packets, after typically compressing the UDP/IP header for efficiency, onto a single PPP frame and transmits this information over a T1 line to BSC 203. As described in United States Patent Application No. 09/534,371 09/534,971, the interface between BSC 203 and BTS 202 is identified as an A3 interface, the specifics of which are described within the '971 application. In the preferred embodiment of the present invention, higher-layer packets arriving from mobile units 201 are multiplexed onto lower-layer frames and transmitted over communication link 205. In particular, multiple UDP/IP packets arriving from mobile units 201 are multiplexed via PPPmux onto a single PPPmux frame, or packet. It should be noted that each PPPmux packet comprises transmissions from multiple users.